

Appl. No. 10/820,240
 Amendment Date August 19, 2006
 Reply to Office action Mailed August 1, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A retinal prosthesis comprising:
 An electrode array suitable to be mounted in close proximity to a retina;
 An electronics package;
 An electrical cable coupling said electrode array to said electronics package said electrical cable suitable to pierce the pars plana region of the sclera; and
 A secondary inductive coil, electrically coupled to said electronics package and suitable to be mounted to the side of a sclera.
2. (Original) The retinal prosthesis according to claim 1, further comprising a strap connected to said secondary inductive coil and surrounding the sclera.
3. (Original) The retinal prosthesis according to claim 1, further comprising a strap connected to said electronics package and surrounding the sclera.
4. (Original) The retinal prosthesis according to claim 1, further comprising suture tabs connected to said secondary inductive coil suitable for attaching said secondary inductive coil to a sclera.
5. (Original) The retinal prosthesis according to claim 1, further comprising suture tabs connected to said electronics package suitable for attaching said electronics package to a sclera.

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6. (Currently Amended) The retinal prosthesis according to claim 2, further comprising a fan tail, having a decreasing radius of curvature, connected to said secondary inductive coil and to said strap.

7. (Original) The retinal prosthesis according to claim 2, further comprising a hook on said prosthesis suitable for engaging a surgical tool.

8. (Original) The retinal prosthesis according to claim 2, further comprising a sleeve for attaching ends of said strap together.

9. (Original) The retinal prosthesis according to claim 1, wherein said cable and electrode array comprise metal traces sandwiched between thin polymer films.

10. (Original) The retinal prosthesis according to claim 9, wherein said cable is folded to present the same side of said cable to both said electronics package and the retina.

11. - 12. (Cancelled)

13. (Original) The retinal prosthesis according to claim 1, wherein said electrode array is suitable to placed in an epiretinal location.

14. (Original) The retinal prosthesis according to claim 1, wherein said secondary inductive coil is a wound wire coil.

15. (Currently Amended) The retinal prosthesis according to claim 2, further comprising a fan tail, having a decreasing radius of curvature, connected to said electronics package and to said cable to facilitate passing said cable through the sclera.

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16. (Original) The retinal prosthesis according to claim 1, wherein said secondary inductive coil is substantially oval shaped.

17. - 34. (Cancelled)

35. (Currently Amended) A retinal prosthesis comprising:

An electrode array suitable to be mounted in close proximity to a retina;

An electronics package;

An electrical cable coupling said electrode array to said electronics package; and

A secondary inductive coil, electrically coupled to said electronics package and suitable to be mounted to the side of a skull outside the orbit of the eye.

36. (New) The retinal prosthesis according to claim 35, further comprising:

A first passive coil suitable be mounted within the body on the side of a skull; and

A second passive coil electrically coupled to said first passive coil and suitable to be mounted within the body proximate to said secondary inductive coil.

37. (New) A retinal prosthesis comprising:

An electrode array suitable to be mounted in close proximity to a retina;

A strap surrounding a sclera;

An electronics package;

An electrical cable coupling said electrode array to said electronics package; and

A secondary inductive coil, mounted to said strap and electrically coupled to said electronics package and suitable to be mounted to the side of a sclera.

38. (New) A retinal prosthesis comprising:

An electrode array suitable to be mounted in close proximity to a retina;

A strap surrounding a sclera;

An electronics package mounted to said strap;

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An electrical cable coupling said electrode array to said electronics package; and
 A secondary inductive coil, electrically coupled to said electronics package and suitable to be mounted to the side of a sclera.

39. (New) A retinal prosthesis comprising:

An electrode array suitable to be mounted in close proximity to a retina;
 An electronics package;
 An electrical cable coupling said electrode array to said electronics package;
 A secondary inductive coil, electrically coupled to said electronics package and suitable to be mounted to the side of a sclera; and
 A hook on said prosthesis suitable to for engaging a surgical tool.

40. (New) A retinal prosthesis comprising:

An electrode array suitable to be mounted in close proximity to a retina;
 An electronics package;
 An electrical cable coupling said electrode array to said electronics package; and
 A substantially oval shaped secondary inductive coil, electrically coupled to said electronics package and suitable to be mounted to the side of a sclera.

41. (New) A retinal prosthesis comprising:

An electrode array suitable to be mounted in close proximity to a retina;
 An electronics package;
 An electrical cable coupling said electrode array to said electronics package;
 A fan tail having a decreasing radius connected to said electronics package; and
 A secondary inductive coil, electrically coupled to said electronics package and suitable to be mounted to the side of a sclera.

42. (New) The retinal prosthesis according to claim 41 wherein said fantail is connected to said cable to facilitate passing said cable through the sclera.

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43. (New) The retinal prosthesis according to claim 41 wherein said fantail is connected to a strap surrounding the sclera.

44. (New) A retinal prosthesis comprising:

An electrode array suitable to be mounted in close proximity to a retina;

An electronics package;

A folded electrical cable coupling said electrode array to said electronics package; and

A secondary inductive coil, electrically coupled to said electronics package and suitable to be mounted to the side of a sclera.

45. (New) The retinal prosthesis according to claim 44, wherein said cable is folded to present the same side of said cable to both said electronics package and the retina.